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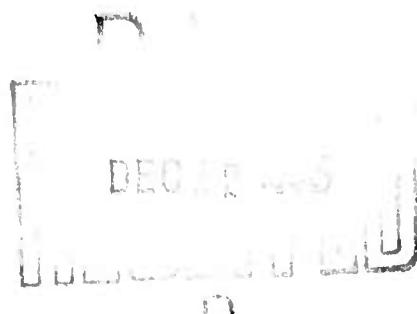
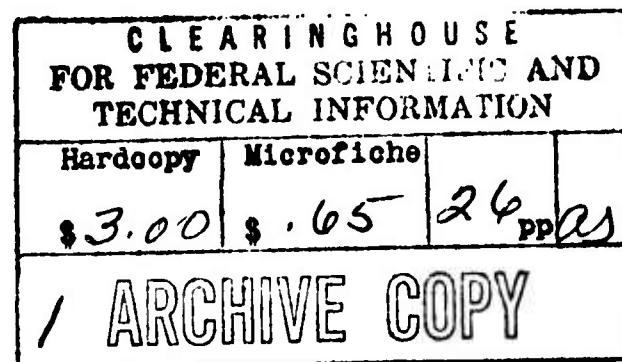
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**GAMMA RAY SPECTRAL ANALYSIS:
A SELECTED BIBLIOGRAPHY**

G. F. Mason



**ARMED FORCES RADIobiology RESEARCH INSTITUTE
Defense Atomic Support Agency
Bethesda, Maryland**

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G. F. MASON

S. W. Porter Jr.
S. W. PORTER, Jr.
Head
Radiological Safety Department

J. S. Burkle
J. S. BURKLE
Captain, MC, USN
Director

ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE
Defense Atomic Support Agency
Bethesda, Maryland

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I. DESCRIPTION

The Radiological Safety Department of the Armed Forces Radiobiology Research Institute is utilizing a gamma ray spectrometer system for the analysis of environmental and neutron irradiated material samples for radioisotope constituency. Computer analysis techniques and their applicability to our situation are under consideration. This bibliography is a collection of references which deals with the analysis of gamma spectra by all methods. Entries are limited to those sources which deal with the actual analysis phase of gamma spectroscopy but some details are present concerning equipment and sample preparation because many groups have published systems in their entirety. In every case, however, there is a section on data analysis after acquisition. Some references contain theoretical material necessary for the development of an operating system, or the results of studies of theoretical methods.

All of the references included are contained in the period from 1956 to 1966. All references are in English, and, where possible, journal entries are listed in preference to institutional reports. All entries were examined for content and accuracy of citation. Listings for publications use the 1963 standard for periodical title abbreviations of the American Standards Association.

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13. ABSTRACT

The Radiological Safety Department of the Armed Forces Radiobiology Research Institute is utilizing a gamma ray spectrometer system for the analysis of environmental and neutron irradiated material samples for radioisotope constituency. Computer analysis techniques and their applicability to our situation are under consideration. This bibliography is a collection of references which deals with the analysis of gamma spectra by all methods. Entries are limited to those sources which deal with the actual analysis phase of gamma spectroscopy but some details are present concerning equipment and sample preparation because many groups have published systems in their entirety. In every case, however, there is a section on data analysis after acquisition. Some references contain theoretical material necessary for the development of an operating system, or the results of studies of theoretical methods. All of the references are from the period 1956 to 1966. An author index is included.

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